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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650,107	08/26/2003	Guerney D.H. Hunt	YOR920030135US1	7225
48813 7590 09/03/2008 LAW OFFICE OF IDO TUCHMAN (YOR) ECM #72212 PO Box 4668 New York, NY 10163-4668			EXAMINER	
			KAWSAR, ABDULLAH AL	
			ART UNIT	PAPER NUMBER
			2195	·
			NOTIFICATION DATE	DELIVERY MODE
			09/03/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)			
	10/650,107	HUNT ET AL.			
Office Action Summary	Examiner	Art Unit			
	ABDULLAH AL KAWSAR	2195			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>17 Ju</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-5 and 7-11 is/are pending in the apprending of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-5,7,8,10 and 11 is/are rejected. 7) Claim(s) 9 is/are objected to. 8) Claim(s) are subject to restriction and/or are subject to restriction and/or pers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on 26 August 2003 is/are:	vn from consideration. relection requirement. r. a)⊠ accepted or b)□ objected t	-			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

1. Claims 1-5, 7-11 are pending.

2. In view of the Appeal Brief filed on (07/17/2008), PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below. If an appellant wishes to reinstate an appeal after prosecution is reopened, appellant must file a new notice of appeal in compliance with 37 CFR 41.31 and a complete new appeal brief in compliance with 37 CFR 41.37. Any previously paid appeal fees set forth in 37 CFR 41.20 for filing a notice of appeal, filing an appeal brief, and requesting an oral hearing (if applicable) will be applied to the new appeal on the same application as long as a final Board decision has not been made on the prior appeal. If, however, the appeal fees have increased since they were previously paid, then appellant must pay the difference between the current fee(s) and the amount previously paid. Appellant must file a complete new appeal brief in compliance with the format and content requirements of 37 CFR 41.37(c) within two months from the date of filing the new notice of appeal. See MPEP § 1205.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 1-4 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over "Tivoli Storage Network Manager" (Tivoli) in view of Numanio et al(Numanio) US Patent Publication No. 20030220899.

5. As per claim 1, Tivoli teaches the invention substantially as clamed including a method for managing a multi-tiered resource system (page 1, col 1, lines 1-6 "Tivoli Storage Network Manager is a comprehensive...... associated storage resources."), the method comprising: automatically determining if a resource tier is in compliance with a management policy (page 2, col 2, "Establishing file system.... SAN" lines 1-4 through col 3, lines 1-7); and

Tivoli does not specifically disclose wherein the management policy includes requiring that an expiration date of the resource tier occur after a maintenance date.

However, Numanio teaches that the management policy includes requiring that an expiration date (exceeds 100%) of the resource tier occur after a maintenance date(requiring data move a month before reaches the limit) (par. 0026).

6. It would have been obvious to a person of ordinary skill in art at the time of invention was made to incorporate the teaching of Tivoli into the method of Numanio to have a

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management policy requiring an expiration data of the resource tier after the maintenance date.

The modification would have been obvious because one of the ordinary skills of the art would utilize the SAN policy in Numanio to be able to predict the storage capacity of the system before it reaches a threshold and take appropriate action according to that.

- 8. As per claim 3, Tivoli teaches that allocating additional capacity to the containers includes utilizing a capacity reserve belonging to the resource tier (page 1, col 3, lines 5 9 "Monitor file systems to automatically processing").
- 9. As per claim 4, Tivoli teaches wherein allocating additional capacity to the containers includes utilizing available capacity from other containers in the resource system (Page 2, col 1, lines 32-35 through page 2, col 2, lines 1-9 "With Tivoli storage network manager you can securely assign choice and used exclusively by the assigned computer.").
- 10. As per claim 11, Numanio teaches that increasing available capacity in containers includes compressing data within the resource tier until the resource tier is in compliance with the management policy (par. 0060).

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11. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over "Tivoli

Storage Network Manager" (Tivoli) in view of Numanio et al (Numanio) US Patent Publication

No. 20030220899, and in view of Mummert et al(Mummert) US Patent No. 6427152.

12. As per claim 7, Tivoli and Numanio do not specifically disclose that calculating the

expiration date of the resource tier.

However, Mummert teaches that calculating the expiration date of the resource tier (col

1, lines 50-56).

13. It would have been obvious to a person of ordinary skill in art at the time of invention

was made to incorporate the teaching of Mummert into the combined method of Tivoli and

Numanio to calculate the expiration date of the resource tier. The modification would have been

obvious because one of the ordinary skills of the art would utilize the method of Mummert to

calculate the life expectancy of the resource to be able to predict a more precise storage capacity

planning.

14. As per claim 8, Mummert teaches that calculating the expiration date of the resource tier

includes calculating a life expectancy of each container belonging to the resource tier (col 3,

lines 2-9; col 6, lines 5-13).

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15. Claims 5 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over "Tivoli Storage Network Manager" (Tivoli) in view of Numanio et al(Numanio) US Patent Publication No. 20030220899, and in view of Koclanes et al.(Koclanes) US Patent Publication No. 20040243699.

16. As per claim 5, Tivoli and Numanio do not specifically disclose allocating additional capacity to the containers includes allocating additional capacity to containers of higher importance before allocating additional capacity to containers of lower importance

However, Koclanes teaches that allocating additional capacity to the containers includes allocating additional capacity to containers of higher importance before allocating additional capacity to containers of lower importance (par. 0090, lines 6-33).

17. It would have been obvious to a person of ordinary skill in art at the time of invention was made to incorporate the teaching of Koclanes into the combined method of Tivoli and Numanio to allocate date in container with higher importance before allocating data in containers of lower importance. The modification would have been obvious because one of the ordinary skills of the art would utilize the defined policy of Koclanes which identifies the importance of application and utilizes that to respond to the important application with storage allocation before allocating storage to other application with lower importance in storage allocation system.

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18. As per claim 10, Koclanes teaches that if the resource tier cannot be brought in compliance with the management policy, alerting that the resource tier is not in compliance with the management policy (par. 0060, lines 41-58).

Allowable Subject Matter

19. Claim 9 is objected as being dependent upon a rejected base claim, but would be allowable if written including all the limitations of the base claim and any intervening claims.

Response to Amendment

20. Applicant's arguments in respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

- 21. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ABDULLAH AL KAWSAR whose telephone number is (571)270-3169. The examiner can normally be reached on 7:30am to 5:00pm, EST.
- 22. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng Ai T. An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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23. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Meng-Ai An/ Supervisory Patent Examiner, Art Unit 2195 /Abdullah-Al Kawsar/ Examiner, Art Unit 2195